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Substitute of form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT NOV 13 2003 (use as many sheets as necessary)		Complete if Known	
Application Number		10/602,521	
Filing Date		June 24, 2003	
First Name Inventor		David Edwin Thurston	
Group Art Unit		1624	
Examiner Name			
Attorney Docket Number		065435-9027	

U.S. PATENT DOCUMENTS			
Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
/J.E./	4,239,683	Yoshio Arakawa	12/16/1980
↓	3,524,849	Batcho <i>et al.</i>	8/18/1970
↓	3,523,941	Leimgruber <i>et al.</i>	8/11/1970
↓	5,545,568	Ellman	8/13/1996
↓	4,309,437	Ueda <i>et al.</i>	1/1982

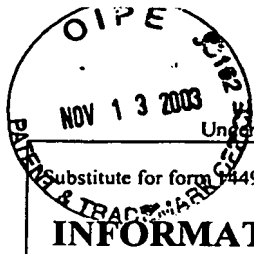
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
/J.E./	JP	JP 58 180 487	Kyowa Hakko Kogyo Co. Ltd.	10/21/1983		
↓	JP	JP 57 131 791	Fujisawa Yakuhin Kogyo KK	8/14/1982		
↓	FR	FR 2 586 683	Centre National de la Recherche Scientifique	3/6/1987		
↓	GB	GB 1 299 198		12/6/1972		
↓	WO	WO 92/19620	Centre National de la Recherche Scientifique	11/12/1992		
↓	WO	WO 97/01560	Pharmacopeia, Inc.	1/16/1997		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/602,521
				Filing Date	June 24, 2003
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Sheet	1	of	8	Attorney Docket Number	065435-9027

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
No Titles		Althuis, T.H. and Hess, H.J, <i>J. Medicinal Chem.</i> , 20(1), 146-149 (1977).
		<i>Arima et al., J. Antibiotics</i> , 25, 437-444 (1972).
		<i>Aristoff, J. Org. Chem.</i> , 57, 6234-6239 (1992).
No Titles		Baraldi, P. G. <i>et al.</i> , "Design, synthesis and biological activity of a pyrrolo [2,1-c] [1,4]benzodiazepine (PBD)-distamycin hybrid", <i>Bioorganic & Medicinal Chemistry Letters</i> , vol. 8, no. 21, 3019-3024 (1998).
		Bi, Y., <i>et al.</i> , <i>Bioorganic & Medicinal Chemistry Letters</i> , vol. 6, no. 19, 2299-2300 (1996).
		Boger <i>et al.</i> , <i>Chem. Rev.</i> , 97, 787-828 (1997).
		Bose <i>et al.</i> , <i>Tetrahedron</i> , 48, 751-758 (1992)
		Bose, D.S., <i>et al.</i> , <i>J. Am. Chem. Soc.</i> 1992, 114, 4939-4941.

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Substitute for Form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 8

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No Title

~~Brown, S C et al., Science, 265, 777 (1994).~~

/J.E./	Burgess, K. et al., "Solid Phase Synthesis of Oligoureas", <i>Journal of the American Chemical Society</i> , 119: 1556-64 (1997).
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/J.E./	Burgess, K. et al., "Solid Phase Synthesis of Unnatural Biopolymers Containing Repeating Urea Units" <i>Agnew Chem. Int. Ed. Engl.</i> 34, No. 8:907 (1995).
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No Title

~~Cava et al., Drost, K. J., Cava, M. P., *J. Org. Chem.*, 56, 2240-2244 (1991).~~

/J.E./	Chemical Abstract No. 171573p, O'Neil, "The synthesis of Functionalized Pyrrolo-[2,1-c][1,4]-Benzodiazepines", <i>Chemical Abstracts</i> , vol. 126, no. 13, 618 (1997) and entire article.
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/J.E./	Chemical Abstract No. 239940r, Farmer, "DNA binding properties of a new class of linked anthramycin analogs", <i>Chemical Abstracts</i> , vol. 114, no. 25, 25 (1991) and entire article.
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/J.E./	Chemical Abstract No. 4427a, Umezawa, "Mazethramycins" <i>Chemical Abstracts</i> , vol. 90, no. 1, 428 (1979).
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/J.E./	Chemical Abstract No. 72145x, Fujisawa, "Benzodiazepine derivatives", <i>Chemical Abstracts</i> , vol. 98, no. 9, 638 (1983).
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/J.E./	Chemical Abstracts No. 139983k, Fujisawa, <i>Chemical Abstracts</i> , vol. 99, no. 17, 603 (1983).
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09/16/2007

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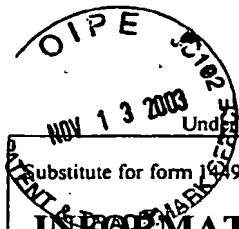
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/J.E./		Chemical Abstracts, Yingzhi, Bi. <i>et al.</i> , "Building blocks for peptide and carbamate libraries", <i>Chemical Abstracts</i> , vol. 125, no. 23, 1013 (1996).
/J.E./		Cho, C Y <i>et al.</i> , "An Unnatural Biopolymer", <i>Science</i> , 261: 1303-5 (1993).
/J.E./		Courtney, S. M. <i>et al.</i> , "A new convenient procedure for the synthesis of pyrrolo[2,1-c][1,4]benzodiazepines", <i>Tetrahedron Letters</i> , vol. 34, no. 33, 5327-28 (1993).
/J.E./		Damayanthi, Y., <i>et al.</i> , "Design and synthesis of novel pyrrolo{2,1-c}[1,4] benzodiazepine-Lexitropsin Conjugates," <i>J. Org. Chem.</i> , 64, 290-292 (1999).
		Edman, P. and Begg, G., <i>Eur. J. Biochem.</i>, 1, 80 (1967).
/J.E./		Figliozzi, GMR <i>et al.</i> , "Synthesis of N-substituted Glycine Peptoid Libraries", <i>Methods in Enzymology</i> , 267, 437-47 (1996).
/J.E./		Foloppe, M.P., <i>et al.</i> , "DNA-binding properties of pyrrolo[2,1-c][1,4]benzodiazepine N10-C11 amidines" <i>Eur. J. Med. Chem.</i> , 31, 407-410 (1996).
/J.E./		Fukuyama, T. <i>et al.</i> , "Total synthesis of (+)-porothramycin B", <i>Tetrahedron Letters</i> , vol. 34, no. 16, 2577-2580 (1993).
/J.E./		Furka, A. <i>et al.</i> , <i>International Journal of Peptide and Protein Research</i> , 37, 487-493 (1991).

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				Examiner Name	
Sheet	4	of	8	Attorney Docket Number	065435-9027

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

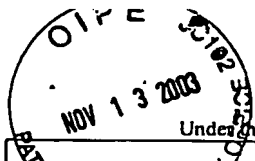
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/J.E./		Gregson, S. J. <i>et al.</i> , "Synthesis of a novel C2/C2' -exo unsaturated pyrrolobenzodiazepine cross-linking agent with remarkable DNA binding affinity and cytotoxicity", <i>Chemical Communications</i> , 797-798 (1999).
/J.E./		Guiotto A. <i>et al.</i> , "Synthesis of novel C7-aryl substituted pyrrolo [2,1-c] [1,4]benzodiazepines (PBDs) via Pro-N10-troc protection and suzuki coupling", <i>Bioorganic & Medicinal Chemistry Letters</i> , vol. 8, no. 21, 3017-3018 (1998).
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		Hara <i>et al.</i> , <i>J. Antibiotics</i> , 41, 1366-1373 (1988).
		Hochlowski <i>et al.</i> , <i>J. Antibiotics</i> , 40, 145-148 (1987).
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		Itoh <i>et al.</i> , <i>J. Antibiotics</i> , 41, 1281-1284 (1988).
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		Kohn, <i>Antibiotics III</i> , Springer-Verlag, NY, 3-11 (1975).

Examiner Signature	/Jon Epperson/	Date Considered	09/16/2007
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		Konishi <i>et al.</i> , <i>J. Antibiotics</i> , 37, 200-206 (1984).
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		Langley and Thurston, <i>J. Org. Chem.</i> , 52, 91-97 (1987).
No Titles		Leber <i>et al.</i> , <i>J. Am. Chem. Soc.</i> , 110, 2992-2993 (1988).
		Leimgruber <i>et al.</i> , <i>J. Am. Chem. Soc.</i> , 87, 5791-5793 (1965).
		Leimgruber <i>et al.</i> , <i>Am. Chem. Soc.</i> , 87, 5793-5795 (1965).
		Lescrinier, <i>et al.</i> , <i>Chem. Eur. J.</i> , 425-433 (1998).
		Lown <i>et al.</i> , <i>Biochem. Pharmacol.</i> (1979), 28 (13), 2017-26; Abstract
		M Egholm <i>et al.</i> , <i>JACS</i> , 114, 1895 (1992).

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		M Egholm <i>et al.</i> , <i>Nature</i> , 365, 566 (1993).
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		Rawal, V. H., Jones, R. J., Cava, M. P., <i>J. Org. Chem.</i> , 52, 19-28 (1987).

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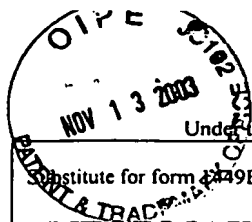
Substitute for form PTO 449B/PTO				Complete if Known	
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No Titles		Saha K. <i>et al.</i> , <i>JOC</i> , 58, 7827 (1993).
		Schreiber <i>et al.</i> , <i>JACS</i> , 120, 23-29 (1998)
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		Thurston <i>et al.</i> , <i>Chem. Brit.</i> , 26, 767-772 (1990).
		Thurston <i>et al.</i> , <i>Chem. Rev.</i> , 1994, 433-465 (1994).
		Thurston, D. E. <i>et al.</i> , "Synthesis of a novel GC-specific covalent-binding DNA affinity-cleavage agent based on pyrrolobenzodiazepines", <i>Chemical Communications</i> , 563-565 (1996).

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	/J.E./	Thurston, D.E., "Advances in the study of Pyrrolo[2,1-c][4,1] benzodiazepine (PBD) Antitumour Antibiotics", <i>Molecular Aspects of Anticancer Drug-DNA interactions</i> , Neidle, S., Waring, M.J. eds., Macmillan Press Ltd., 1: 54-88 (1993).
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	/J.E./	Wilson, S. C. <i>et al.</i> , "Design and Synthesis of a Novel Epoxide-Containing Pyrrolo[2,1-c][1,4]benzodiazepine (PBD) via a New Cyclization Procedure", <i>Tetrahedron Letters</i> , vol. 36, no. 35, 6333-6336 (1995).
	/J.E./	Zuckermann <i>et al.</i> , "Discovery of Nanomolecular Ligands for 7-Transmembrane G-Protein-Coupled Receptors from a Diverse N-(Substituted) glycine Peptoid Library", <i>Journal of Medicinal Chemistry</i> , 37, 2678-85 (1994).

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Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
/J.E./		4,185,016	Takanabe et al.	1/22/1980
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Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
/J.E./	WO	88/07378	Cancer Research Campaign Technology Ltd.	10/6/1988		
	WO	89/10140	Cancer Research Campaign Technology Ltd.	11/2/1989		
	WO	93/08288	Cancer Research Campaign Technology Ltd.	4/29/1993		
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	WO	00/12506	The University of Portsmouth Higher Education Corp.	3/9/2000		
	WO	00/12507	The University of Portsmouth Higher Education Corp.	3/9/2000		
	EP	0239400A2	Winter, G.P.	9/30/1987		
	FR	2027356	Fujisawa Pharmaceutical Co. Ltd.	12/29/1969		
	JP	53-82792	Microbiological Chemical Research	7/21/1978		

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				Application Number	10/602,521
				Filing Date	June 24, 2003
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1639
Examiner Name	Epperson, Jon D.				
Sheet	1	of	6	Attorney Docket Number	065435-9027

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
/J.E./		ALBERICIO, F. et al., "NPE-Resin, A New Approach to the Solid-Phase Synthesis of Protected Peptides and Oligonucleotides II. Synthesis of Protected Peptides ^{1,2} ," <i>Tetrahedron Letters</i> , 32:1515-1518 (1991)
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/J.E./		BERRY, J. M. et al., "Solid-phase synthesis of DNA-interactive pyrrolo[2,1-c][1,4]benzodiazepines," <i>Tetrahedron Letters</i> , 41, 6171-6174 (2000)
/J.E./		BRIDGES, R.J. et al., "Conformationally Defined Neurotransmitter Analogues. Selective Inhibition of Glutamate Uptake by One Pyrrolidine-2,4-dicarboxylate Diastereomer," <i>J. Med. Chem.</i> , 34, 717-725 (1991)
/J.E./		BUNDGAARD, H., "Design and Application of Prodrugs," <i>A Textbook of Drug Design and Development</i> , eds Krogsgaard-Lassen, P., and Bundgaard, H., Harwood Academic Press, 113-135 (1991)
/J.E./		CARRUTH, J.A.S., "Clinical applications for photodynamic therapy," <i>J. Photochem Photobiol.</i> , 9, 396-397 (1991)

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			Filing Date	June 24, 2003	
			First Named Inventor	David Edwin Thurston	
			Group Art Unit	1639	
			Examiner Name	Epperson, Jon D.	
Sheet	2	of	6	Attorney Docket Number	065435-9027

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	/J.E./	CULVER et al., "In Vivo Gene Transfer with Retroviral Vector-Producer Cells for Treatment of Experimental Brain Tumors," <i>Science</i> , 256, 1550-1552 (1992)
		DALTON, S. and TREISMAN, R., "Characterization of SAP-1, a Protein Recruited by Serum Response Factor to the c-fos Serum Response Element," <i>Cell</i> , 68, 597-612 (1992)
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	↓	GRANT, R. et al., <i>Grant and Hackh's Chemical Dictionary</i> , McGraw-Hill Book Company, 282 (1987)

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			Filing Date	June 24, 2003	
			First Named Inventor	David Edwin Thurston	
			Group Art Unit	1639	
			Examiner Name	Epperson, Jon D.	
Sheet	3	of	6	Attorney Docket Number	065435-9027

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	/J.E./	GREENE, T.W. and WUTS, P.G.M., <i>Protective Groups in Organic Synthesis</i> , John Wiley & Sons, 2 nd ed., Ch 7, 315-345 (1991)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/602,521	
			Filing Date	June 24, 2003	
			First Named Inventor	David Edwin Thurston	
			Group Art Unit	1639	
			Examiner Name	Epperson, Jon D.	
Sheet	4	of	6	Attorney Docket Number	065435-9027

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	/J.E.	KAMAL, A., et al., "Synthesis of Pyrrolo [2,1-c][1,4]-Benzodiazepene Antibiotics: Oxidation of Cyclic Secondary Amine with TPAP", <i>Tetrahedron</i> , v. 53, No. 9, 3223-3230 (1997)
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				Application Number	10/602,521
				Filing Date	June 24, 2003
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1639
				Examiner Name	Epperson, Jon D.
Sheet	5	of	6	Attorney Docket Number	065435-9027

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	/J.E./	MORGAN, R.A. and ANDERSON, W.F., "Human Gene Therapy," <i>Annu. Rev. Biochem.</i> , 62, 191-217 (1993)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/602,521
				Filing Date	June 24, 2003
				First Named Inventor	David Edwin Thurston
				Group Art Unit	1639
				Examiner Name	Epperson, Jon D.
Sheet	6	of	6	Attorney Docket Number	065435-9027

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
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	/J.E./	SATYAM, A. et al., "Design, Synthesis, and Evaluation of Latent Alkylating Agents Activated by Glutathione S-Transferase," <i>J. Med. Chem.</i> , 39, 1736-1747 (1996)
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Sheet 1 of 2

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Application Number	10/602,521
Filing Date	June 24, 2003
First named Inventor	David Edwin Thurston
Group Art Unit	1639
Examiner name	Unknown
Attorney Docket Number	065435-9027-US00

U.S. Patent Documents

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
/J.E./	6,660,856	Wang	12/9/2003

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Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
/J.E./	EP	1193270	Spirogen Ltd.	4/3/2002		
	GB	2053894	The Green Cross Corporation	2/11/1981		
	WO	88/04659	The Upjohn Company	6/30/1988		
	WO	91/16324	The Upjohn Company	10/31/1991		
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	WO	97/07097	Auckland Division Cancer Society of New Zealand Inc.	2/27/1997		
	WO	98/11101	Auckland Division Cancer Society of New Zealand Inc.	3/19/1998		
	WO	98/12197	Kyorin Pharmaceuticals Co., Ltd. et al.	3/26/1998	N	Y
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	WO	99/46244	Novo Nordisk A/S et al.	9/16/1999		

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				Application Number		10/602,521	
				Filing Date		June 24, 2003	
				First named Inventor		David Edwin Thurston	
				Group Art Unit		1639	
				Examiner name		Unknown	
				Attorney Docket Number		065435-9027-US00	
U.S. Patent Documents							
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract	
/J.E./	WO	00/12508	The University of Portsmouth Higher Education Corp.	3/9/2000			
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	WO	00/64864	Cancer Campaign Research Technology Ltd.	11/2/2000			
	WO	2004/043963	Spirogen Ltd.	5/27/2004			
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↓	WO	2005/085251	Spirogen Ltd.	9/15/2005			

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Complete if Known

Application Number	10/602,521
Filing Date	June 24, 2003
First Named Inventor	David Edwin Thurston
Group Art Unit	1639
Examiner Name	Unknown
Attorney Docket Number	065435-9027-US00

Sheet 1 of 5

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/J.E./

ADAMS et al., "Molecular modelling of a sequence-specific DNA-binding agent based on the pyrrolo[2,1-c][1,4]benzodiazepines," Pharm. Pharmacol. Commun. (1999) 5:555-560

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			Examiner Name	Unknown	
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/J.E./		DUBOWCHIK, G.M. et al., "Cathepsin B-sensitive dipeptide prodrugs. 1. A model study of structural requirements for efficient release of doxorubicin," Biorg. Med. Chem. Lett. (1998) 8:3341-3346
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	↓	HAMBURGER, A.W. et al., "Primary bioassay of human tumor stem cells," Science (1977) 197:461-643

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/J.E./		JAKOBSEN et al., "Design, synthesis, and pharmacological evaluation of thapsigargin analogues for targeting apoptosis to prostatic cancer cells," J. Med. Chem. (2001) 44:4696-4703
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	✓	LANGLOIS, N. et al., "Synthesis and cytotoxicity on sensitive and doxorubicin-resistant cell lines of new pyrrolo[2,1-c][1,4]benzodiazepines related to anthramycin," J. Med. Chem. (2001) 44:3754-3757

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			Group Art Unit	1639	
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/J.E./		LIPSHUTZ, B.H. et al., "Pd(II)_ Catalyzed Acetal/Ehtal Hydrolysis/Exchange Reactions," Tetrahedron Lett. (1985) 26(6):705-708
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	↓	SMELLIE, M. et al., "Sequence selective recognition of duplex DNA through covalent interstrand cross-linking," Biochem. (2003) 42:8232-8239

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/J.E./		THURSTON, D.E., "Nucleic acid targeting: therapeutic strategies for the 21st century," Brit. J. Cancer (1999) 80(1):65-85
/J.E./		TIBERGHEN, A.C. et al., "Application of the stille coupling reaction to the synthesis of C2-substituted endo-exo unsaturated pyrrolo[2,1-c][1,4]benzodiazepines (PBDs)," Biorg. Med. Chem. Lett. (2004) 14:5041-5044
/J.E./		WELLS, G. et al., "Pyrrolobenzodiazepine-polyamide libraries: synthesis and DNA binding selectivity," Proc. Am. Assoc. Canc. Res. (2003) 44:85-86, #452
/J.E./		WERMUTH et al., "Molecular Variations Based on Isosteric Replacements," The Practice of Medicinal Chemistry, Chapter 13 (1996) 203-237
/J.E./		WILLIAMS, M.A. et al., "Synthesis of conformationally constrained DTPA analogues. Incorporation of the ethylenediamine units as aminopyrrolidines," J. Org. Chem. (1994) 59(13):3616-3625

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Application Number	10602521
Filing Date	2003-06-24
First Named Inventor	David Edwin Thurston
Art Unit	1639
Examiner Name	Jon D. Epperson
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